

HIGH-PERFORMANCE TRIAXIAL ACCELEROMETERS

10 mV/g OUTPUT PER AXIS

ACC301
\$1570



- ✓ Ideal Vibration Monitoring in 3 (X-Y-Z) Planes
- ✓ Weighs Only 10 g
- ✓ Fast Turn-On Time (1 s)

OMEGA's ACC301 triaxial accelerometer is ideal for lightweight single-point monitoring in 3 (x-y-z) planes. This accelerometer has a low noise floor and a wide frequency range of up to 10 kHz. The ACC301 weighs only 10 g, yet its titanium construction makes it very rugged.

SPECIFICATIONS

Excitation: 2 mA nominal @ 15 to 30 Vdc, constant current

Rated Output: 10 mV/g nominal @ 100 Hz per axis

Frequency Range: 3 Hz to 10 kHz (up to ±5 % rated output shift)

Amplitude Range: ±500 g peak

Amplitude Linearity: 2% up to 400 g peak

Temperature Range: -55 to 120°C (-65 to 250°F)

Temperature Sensitivity Effect:
-54 to 38°C (-65 to 100°F) ≤5% FS;
38 to 121°C (100 to 250°F) ≤8% FS

Thermal Shock: 3 g/°C

Transverse Sensitivity: 5% of axial maximum per axis

Maximum g Without Damage: 5000 g peak

Maximum g Without Clipping: ±500 g peak

Mounted Resonance Frequency: >50 kHz

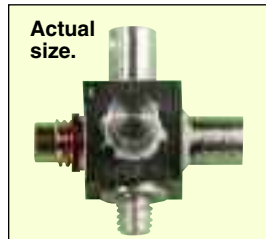
Output Impedance: 1000 Ω nominal

Bias Voltage: 7V nominal

Base Strain: 0.005 g/microstrain nominal

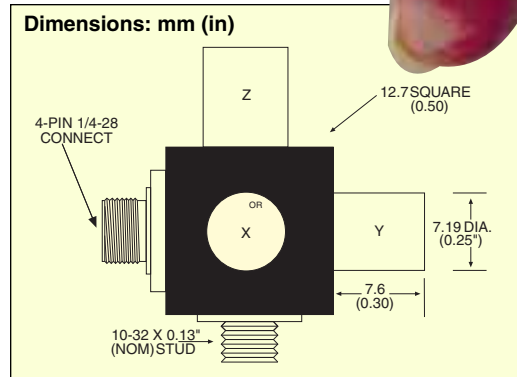
Noise Floor (Wide Band): 0.0015 g (rms)

Weight: 10 g (0.35 oz) nominal (without cable)



ACC-PS4A power supply, shown smaller than actual size \$595, see page K-17.

ACC-301, \$1570, shown with ACC-CB3-6 cable, \$160, and MAGNET2 magnetic mounting base, \$60.



Material: Titanium

Dimensions: 19 H x 12.7 mm (0.75 x 0.5") square

Connector: 4-pin, 1/4-28 female termination, cable sold separately (order Model No. **ACC-CB3-6**)

Mounting: 10-32 removable stud

Mounting Torque Max: 22 cm-kg (20 in-lb)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
MODEL NO.	PRICE	DESCRIPTION
ACC301	\$1570	Triaxial accelerometer
ACC-CB3-6	160	1.8 m (6') 4-conductor cable (male/male) required

Comes complete with operator's manual.

Note: The compatible meters are for single input only. For multichannel instrumentation, consult the Omega Pressure Department.

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
MAGNET2	\$60	Magnetic mounting base (10 lb holding force) 19.1 Dia. x 19.1 mm high (0.75 x 0.75")

POWER SUPPLIES

ACC-PS4A	\$595	Triaxial accelerometer power supply/amplifier
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Interface cables used between power supply and instrumentation

ACC-CB4-15	\$65	4.6 m (15') coaxial cable (BNCM/BNCM)
ACC-CB5-2	35	0.6 m (2') coaxial cable (BNCM/banana plug)
ACC-CB6	15	178 mm (7") coaxial cable (BNCM/pigtail)
ACC-CB3-A	37.50	4-pin female/female adaptor

Note: See pages K-16 through K-18 for details on the above accessories.

Ordering Example: ACC301, accelerometer, ACC-CB3-6, coaxial cable, ACC-PS4A, power supply, (3) ACC-CB6, coaxial cables, \$1570 + 160 + 595 + (3 x 15) = \$2325.



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